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| FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION | DOCKET NUMBER WTE 301 | APPLICATION NUMBER 10607189 |
| | APPLICANT Allen F. Podell | |
| | FILING DATE June 25, 2003 | GROUP ART UNIT |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
|---------------------|--------------------|-----------|------------------|-------|--------------|-------------------------|
| <i>ue</i> | 6,518,856 | 2/11/2003 | Casale et al. | | | |
| | 6,407,648 | 6/18/2002 | Johnson | | | |
| | 6,020,783 | 2/1/2000 | Coppola | | | |
| | 6,246,299 | 6/12/2001 | Werlau | | | |
| | 5,982,252 | 11/9/1999 | Werlau | | | |
| | 5,926,076 | 7/20/1999 | Johnson et al. | | | |
| | 5,889,444 | 3/30/1999 | Johnson et al. | | | |
| | 5,563,558 | 10/8/1996 | Mohwinkel et al. | | | |
| | 4,999,593 | 3/12/1991 | Anderson | | | |
| | 4,937,541 | 6/26/1990 | Podell et al. | | | |
| <i>he</i> | 4,800,345 | 1/24/1989 | Podell et al. | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES NO |
|--|--------------------|------|---------|-------|--------------|-----------------------|
| | | | | | | |

OTHER DOCUMENTS

| | | |
|-----------|---|---|
| <i>ue</i> | ✓ | An, Hongming et. al, <i>IA 50:1 Bandwidth Cost-Effective Coupler with Sliced Coaxial Cable</i> , IEEE MTT-S Digest, pp. 789-792, June 1996. |
| | ✓ | Walker, J.L.B., <i>Analysis and Design of Kemp-Type 3 dB Quadrature Couplers</i> , IEEE Transactions on Microwave Theory and Techniques, Vol. 38, No. 1, pp. 88-90, January 1990. |
| | ✓ | Bickford, Joel D. et. al, <i>Ultra-Broadband High-Directivity Directional Coupler Design</i> , IEEE MTT-S Digest, pp. 595-598, 1988. |
| <i>he</i> | | Young, Leo, <i>The analytical equivalence of TEM-mode directional couplers and transmission-line stepped-impedance filters</i> , Proceedings IEEE, Vol. 110, No. 2, pp. 275-281, February 1963. |

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DATE CONSIDERED

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|---|-------------------------------------|---------------------------------------|
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FIL. DATE IF APPROP. |
|---------------------|--------------------|-----------|------------------|-------|--------------|-------------------------|
| he | 4,216,446 | 8/5/1980 | Iwer | | | |
| I | 4,158,184 | 6/12/1979 | Kenyon | | | |
| I | 3,967,220 | 6/29/1976 | Tagashira et al. | | | |
| he | 3,516,024 | 6/2/1970 | Lange | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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|--|--------------------|------|---------|-------|--------------|-----------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

OTHER DOCUMENTS

| | | |
|----------------------------|---|--|
| he | ✓ | Levy, Ralph, <i>General Synthesis of Asymmetric Multi-Element Coupled-Transmission-Line Directional Couplers</i> , * IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-11, No. 4, pp. 226-237, July 1963. |
| I | ✓ | Monteath, G.D., <i>Coupled Transmission Lines as Symmetrical Directional Couplers</i> , Proc. IEE, Vol. 102, Part B, No. 3, pp. 383-392, May 1955. |
| I | ✓ | Oliver, Bernard M., <i>Directional Electromagnetic Couplers</i> , * Proc. IRE, Vol. 42, No. 11, pp. 1686-1692, November 1954. |
| he | ✓ | Gerst, C.W., <i>11-7 Electrically Short 90° Couplers Utilizing Lumped Capacitors</i> , Syracuse University Research Corporation, pp. 58-62, (year unknown). |
| EXAMINER DIVU KE | | DATE CONSIDERED 11/30/04 |